

FIG 1a

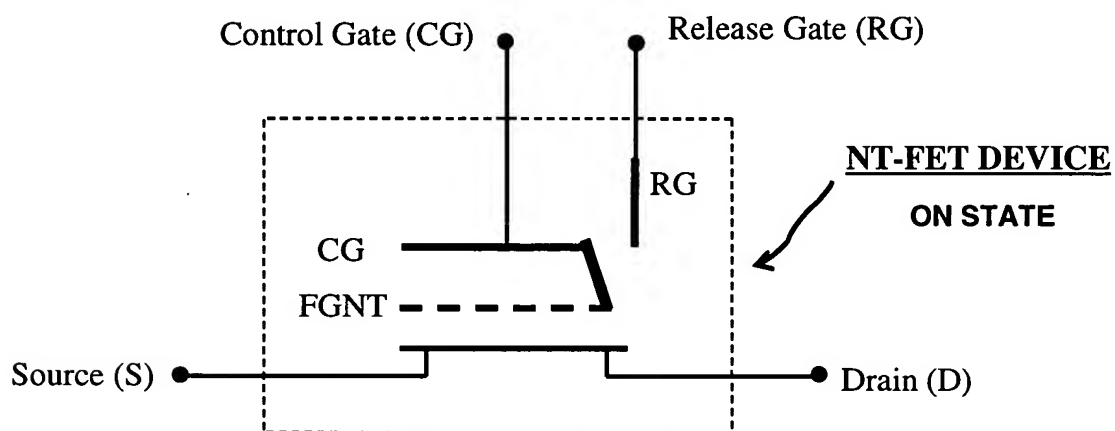


FIG 1b

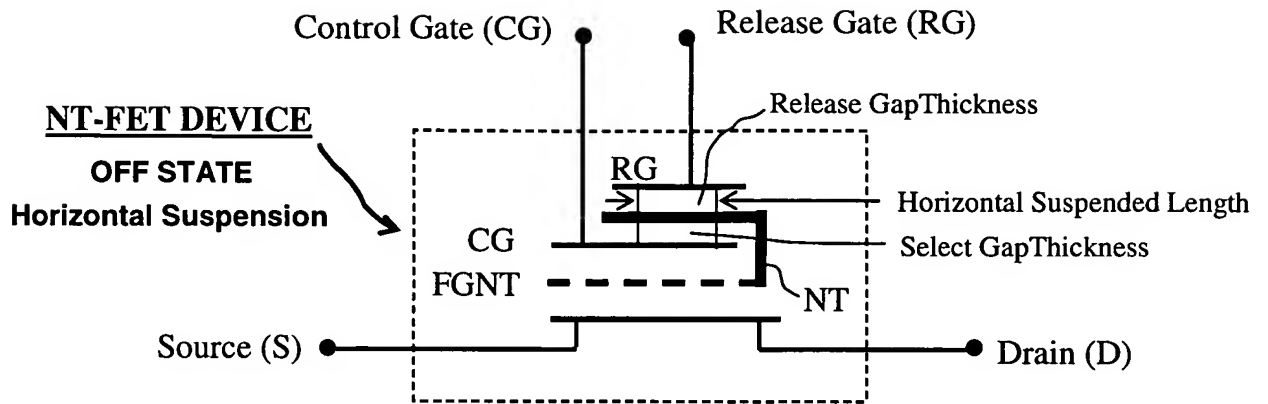


FIG 2a

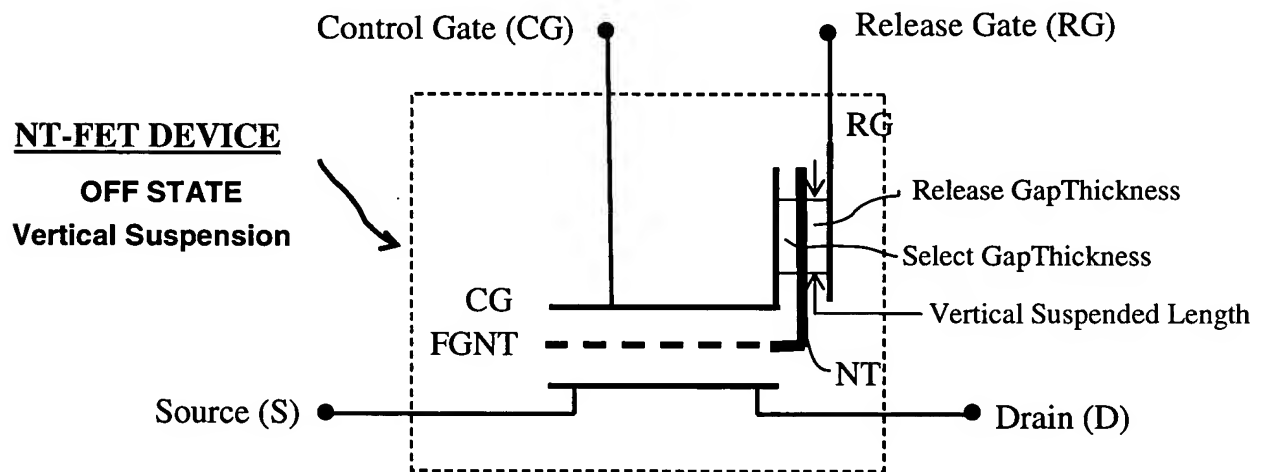


FIG 2b

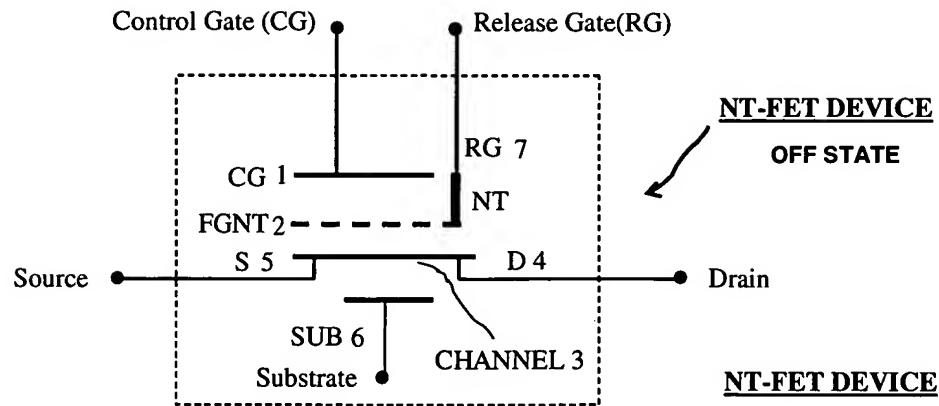


FIG 3a

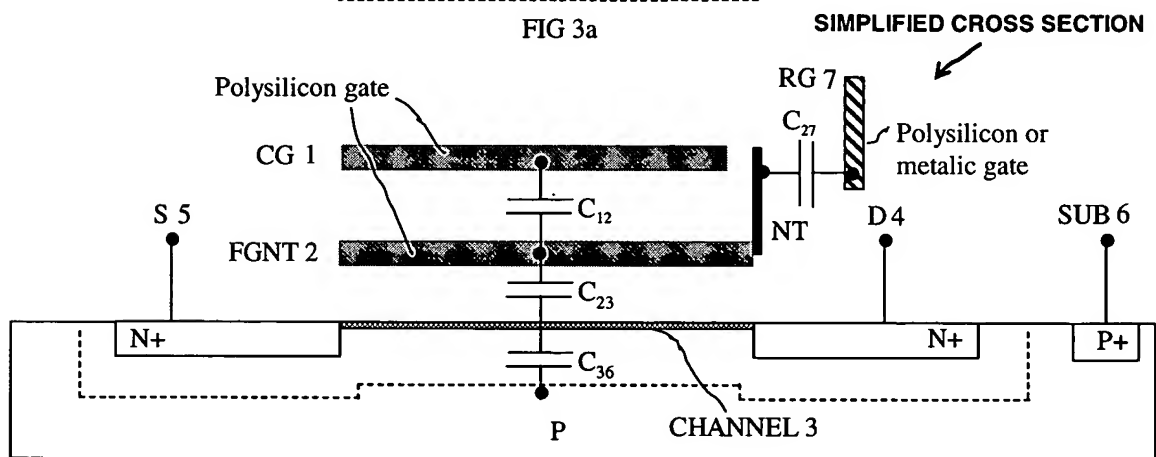
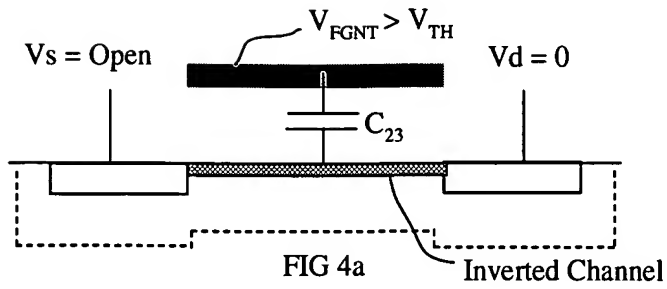
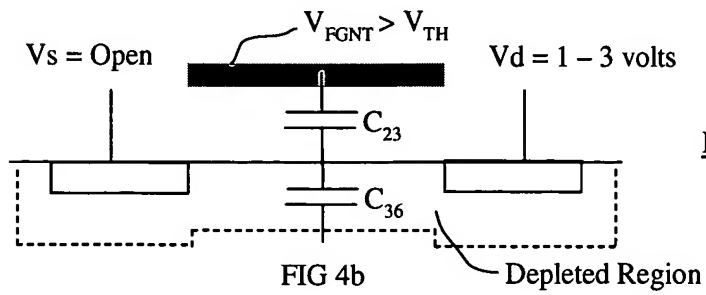


FIG 3b

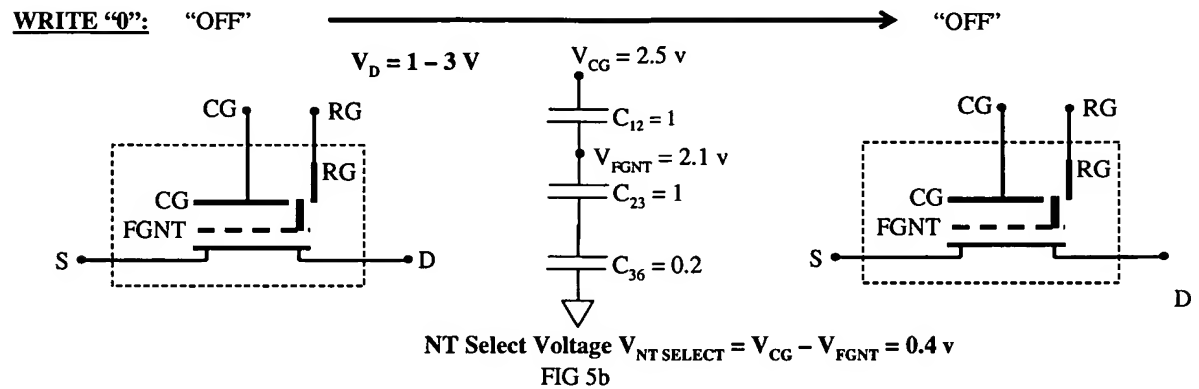
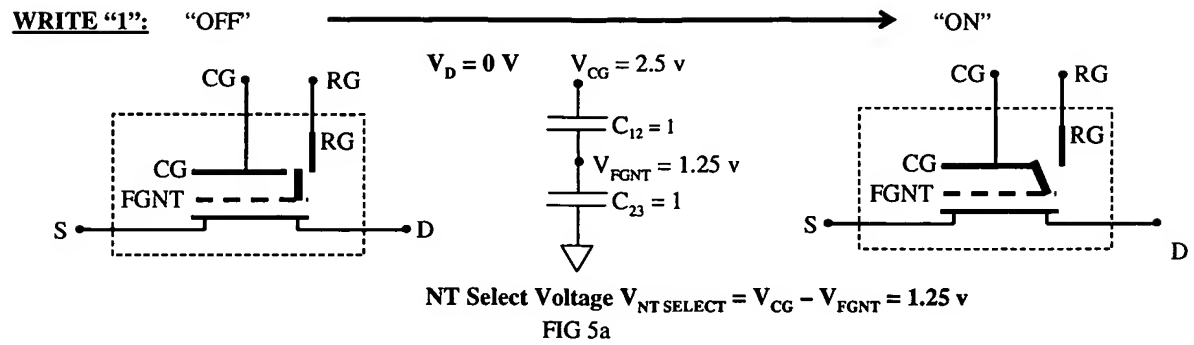
CHANNEL REGION MODULATION



Inverted Channel: electrons at $V = 0$ volts



Depleted Channel: electrons flow to positive terminal



NET: SELECT VOLTAGE THRESHOLD RANGE $> 0.4\text{ v}$ & $< 1.25\text{ v}$

Figure 6

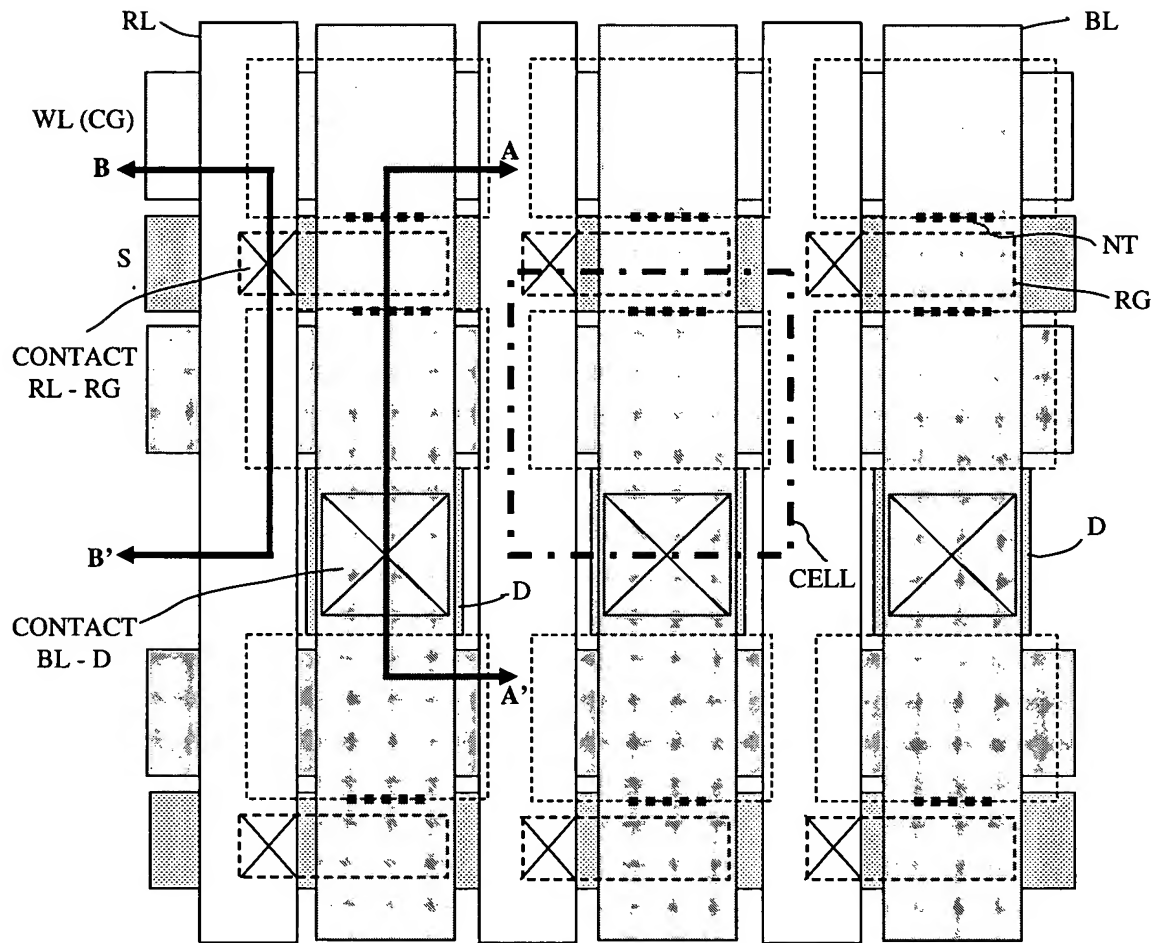


Figure 7

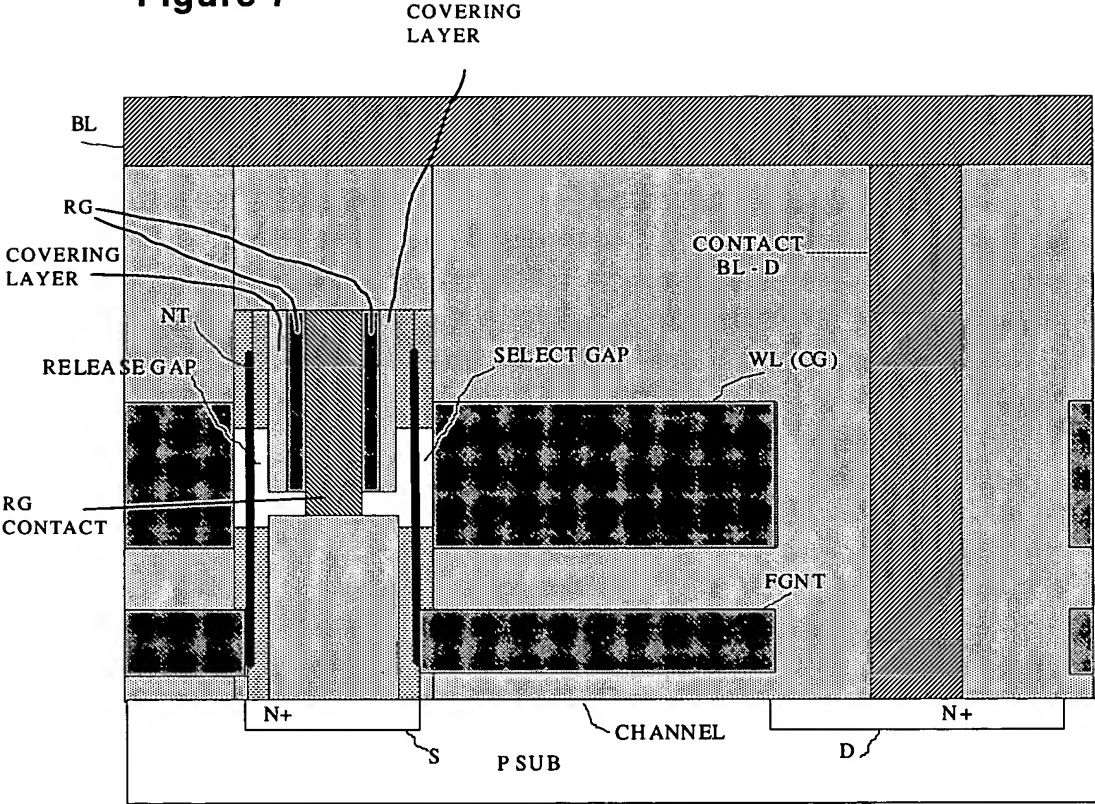


Figure 8

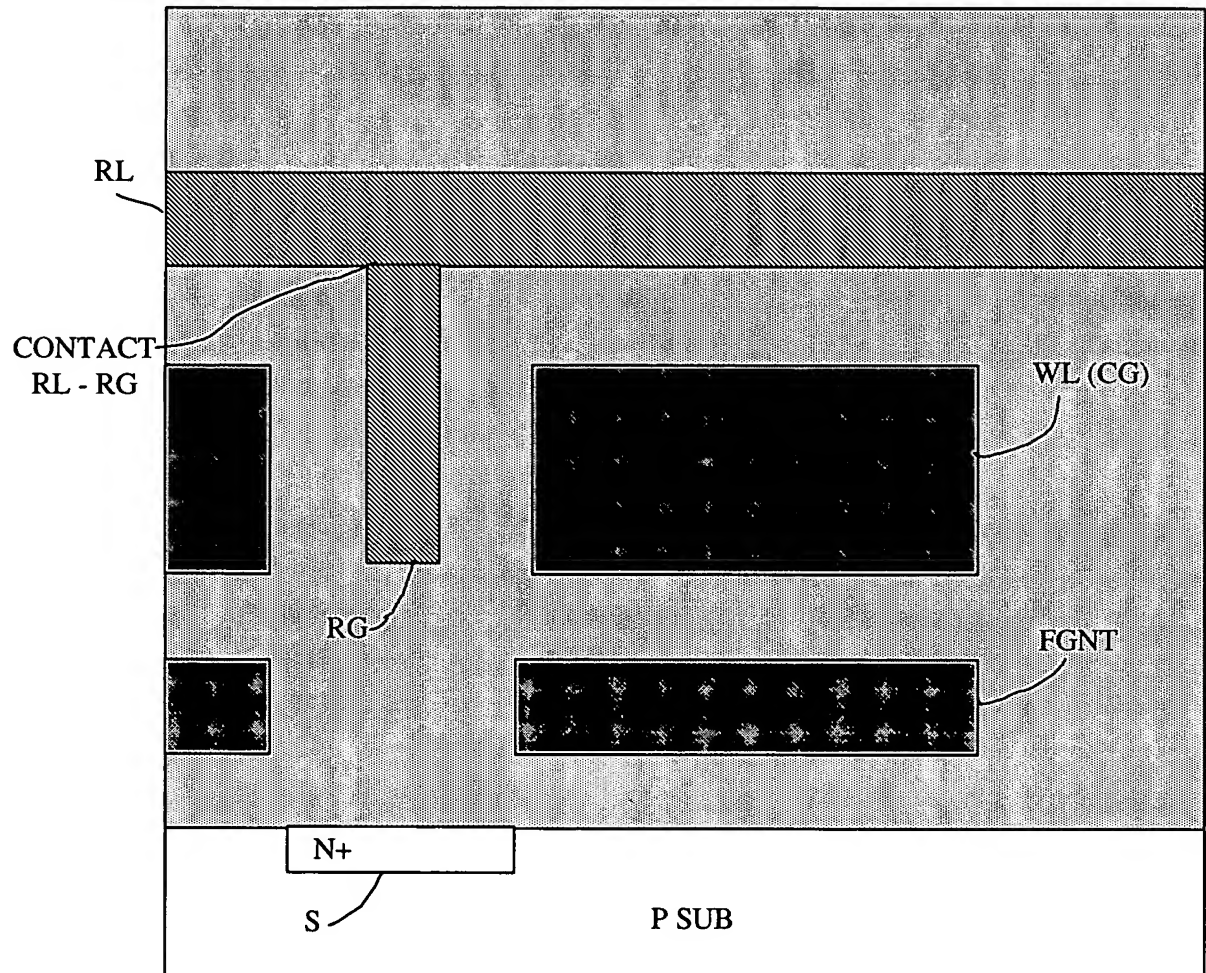


Figure 9

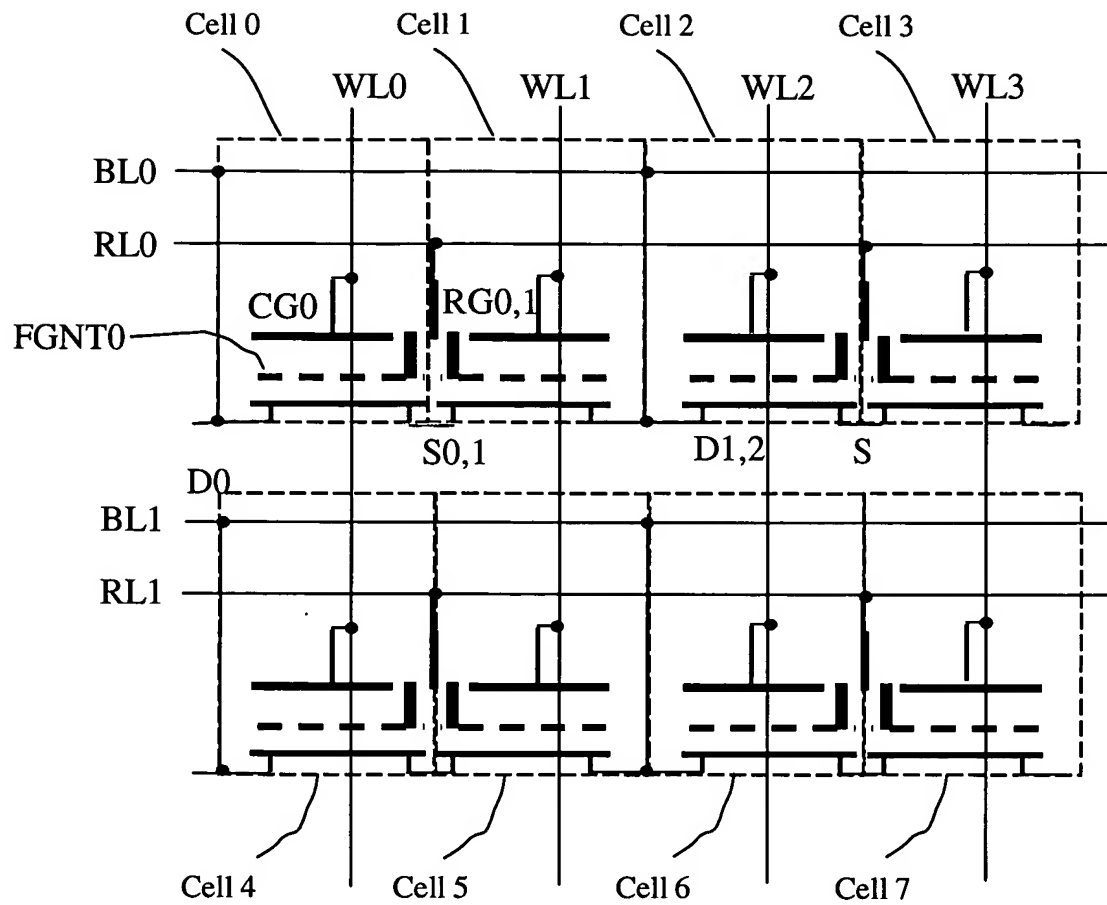


Figure 10

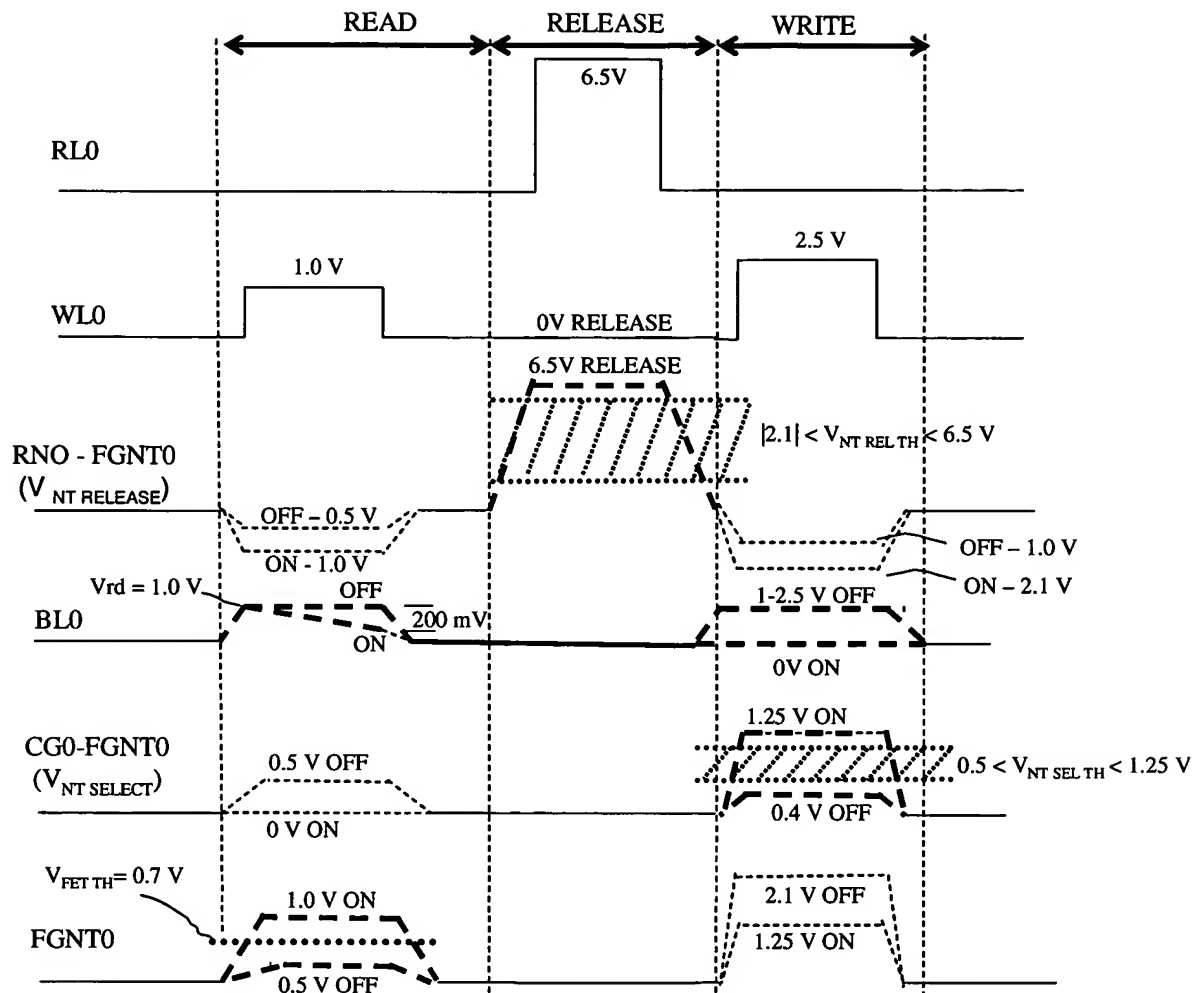


Figure 11

